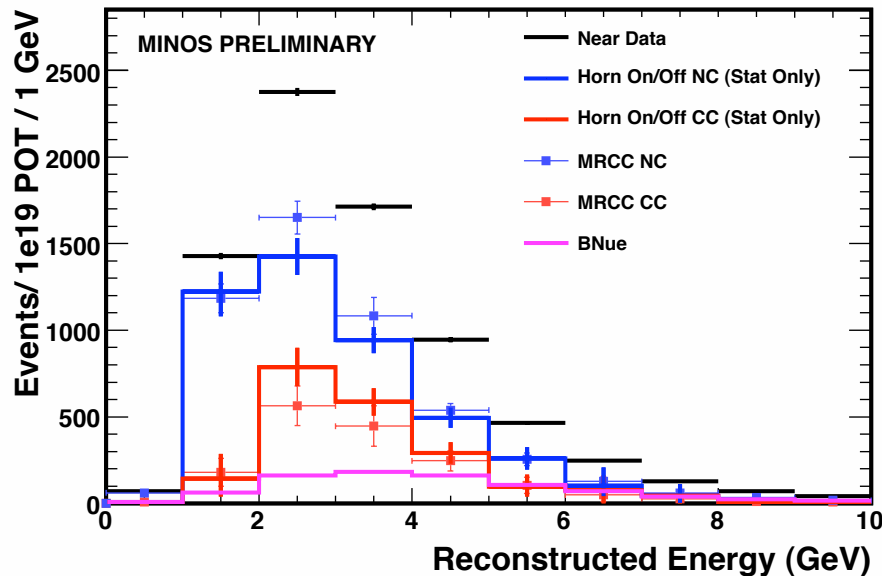


BNL in MINOS

- Leadership for the electron neutrino appearance analysis. (Milind Diwan)
- Contributions to the electron neutrino analysis: M. Bishai, David Jaffe, Lisa Whitehead.
- Complete expertise on beam simulations. (M. Bishai, B. Viren, D. Jaffe)
- Key group for maintenance of a complete set of analysis software and database for the beam line: spill by spill analysis of the beam quality and the normalization for the experiment. (M. Bishai, Kevin Zhang, B. Viren)

Electron neutrino analysis snapshot.



Background decomposition using near detector data and two methods.

	Total	NC	ν_μ CC	Beam ν_e CC	ν_τ CC
Horn On/Off	42	29	8	3	2
MRCC	43	32	6	3	2

Table 7: Predicted number of Far Detector Events using the ANN30 at 3.25×10^{20} POT Exposure with $\theta = 2.4 \times 10^{-3}$ eV², $\sin^2(2\theta_{23}) = 1.0$, and $\sin^2(2\theta_{13}) = 0.0$, no matter effects. Systematic errors are still being evaluated.

Background prediction. Now much more firmly based on data. Preliminary syst errors ~7%. A lot of new ideas from BNL on how to do this.

Estimated completion of first analysis: Fall 2008
More data is coming in and experiment will be competitive until 2010.